

In the Claims

Please substitute the claims as set forth below in a complete listing, cancelling claims 11-23 without prejudice. There are no claim amendments presented at this time.

1.(previously presented) A process for the production of previtamin D, the process comprising:

a first irradiation of a reaction mixture containing provitamin D with light energy having a wavelength of approximately 254 nm; and

a second irradiation of said reaction mixture with light energy having a wavelength of approximately 313 nm, the reaction mixture containing no photosensitizer.

2.(original) The process of claim 1, wherein the first and second irradiations are sequential.

3.(original) The process of claim 1, wherein the reaction mixture further contains a solvent.

4.(original) The process of claim 1, wherein the reaction mixture further contains an organic solvent.

5.(original) The process of claim 1, wherein the reaction mixture further contains methanol.

6.(previously presented) A process for producing previtamin D, the process comprising:
a first irradiation of a reaction mixture containing provitamin D in the absence
of a photosensitizer with light energy having a wavelength of approximately from
240 to 265 nm and a second irradiation of said reaction mixture with light energy
having a wavelength of approximately from 300 to less than 330 nm and in the
absence of a photosensitizer.

7.(original) The process of claim 6, wherein the first and second irradiations are
sequential.

8.(original) The process of claim 6, wherein the reaction mixture further contains a
solvent.

9.(original) The process of claim 6, wherein the reaction mixture further contains an
organic solvent.

10.(original) The process of claim 6, wherein the reaction mixture further contains
methanol.

11-23.(cancelled)

24.(previously presented) A process for production of vitamin D by light irradiation without
the use of a photosensitizer, the process comprising:
a first irradiation of a reaction mixture containing provitamin D without a
photosensitizer with light energy having a wavelength of approximately from 240 to
265 nm;

a second irradiation of said reaction mixture without photosensitizer with light energy having a wavelength of approximately from 300 to less than 330 nm; and heating the reaction mixture after the second irradiation.

25.(original) The process of claim 24, wherein heating consists of a temperature not exceeding 100° C.

26.(original) The process of claim 24, wherein the first and second irradiations are sequential.

27.(previously presented) The process of claim 24, wherein the reaction mixture further contains a solvent.

28.(previously presented) The process of claim 24, wherein the reaction mixture further contains an organic solvent.

29.(previously presented) The process of claim 24, wherein the reaction mixture further contains methanol.